Yonghong Deng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2825060/publications.pdf

Version: 2024-02-01

163	8,486	34105 52	54911 84
papers	citations	h-index	g-index

164	164	164	9598
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)â€Ion Batteries. Advanced Science, 2017, 4, 1700146.	11.2	390
2	Highly Regenerable Mussel-Inspired Fe₃O₄@Polydopamine-Ag Coreâ€“Shell Microspheres as Catalyst and Adsorbent for Methylene Blue Removal. ACS Applied Materials & Interfaces, 2014, 6, 8845-8852.	8.0	385
3	Formation of uniform colloidal spheres from lignin, a renewable resource recovered from pulping spent liquor. Green Chemistry, 2014, 16, 2156.	9.0	334
4	Multiphase surface growth of hydrophobic ZIF-8 on melamine sponge for excellent oil/water separation and effective catalysis in a Knoevenagel reaction. Journal of Materials Chemistry A, 2018, 6, 3258-3263.	10.3	202
5	Electrochromic Metal Oxides: Recent Progress and Prospect. Advanced Electronic Materials, 2018, 4, 1800185.	5.1	195
6	Reduction of lignin color via one-step UV irradiation. Green Chemistry, 2016, 18, 695-699.	9.0	176
7	A Quadrupleâ€Hydrogenâ€Bonded Supramolecular Binder for Highâ€Performance Silicon Anodes in Lithiumâ€Ion Batteries. Small, 2018, 14, e1801189.	10.0	171
8	Investigation of Aggregation and Assembly of Alkali Lignin Using Iodine as a Probe. Biomacromolecules, 2011, 12, 1116-1125.	5.4	162
9	H- and J-Aggregation of Fluorene-Based Chromophores. Journal of Physical Chemistry B, 2014, 118, 14536-14545.	2.6	147
10	Poor Stability of Li₂CO₃ in the Solid Electrolyte Interphase of a Lithiumâ€Metal Anode Revealed by Cryoâ€Electron Microscopy. Advanced Materials, 2021, 33, e2100404.	21.0	147
11	Thermoresponsive Melamine Sponges with Switchable Wettability by Interface-Initiated Atom Transfer Radical Polymerization for Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 8967-8974.	8.0	138
12	Stabilization of Black Phosphorous Quantum Dots in PMMA Nanofiber Film and Broadband Nonlinear Optics and Ultrafast Photonics Application. Advanced Functional Materials, 2017, 27, 1702437.	14.9	136
13	Film-forming electrolyte additives for rechargeable lithium-ion batteries: progress and outlook. Journal of Materials Chemistry A, 2019, 7, 8700-8722.	10.3	135
14	Multifunctional foams derived from poly(melamine formaldehyde) as recyclable oil absorbents. Journal of Materials Chemistry A, 2014, 2, 9994-9999.	10.3	134
15	Lithiophilic Zn Sites in Porous CuZn Alloy Induced Uniform Li Nucleation and Dendrite-free Li Metal Deposition. Nano Letters, 2020, 20, 2724-2732.	9.1	134
16	Ultrahigh-Capacity Organic Anode with High-Rate Capability and Long Cycle Life for Lithium-Ion Batteries. ACS Energy Letters, 2017, 2, 2140-2148.	17.4	124
17	Influence of pH on the behavior of lignosulfonate macromolecules in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 50-58.	4.7	118
18	Preparation of Nanocapsules via the Self-Assembly of Kraft Lignin: A Totally Green Process with Renewable Resources. ACS Sustainable Chemistry and Engineering, 2016, 4, 1946-1953.	6.7	115

#	Article	IF	Citations
19	Formation of Photoresponsive Uniform Colloidal Spheres from an Amphiphilic Azobenzene-Containing Random Copolymer. Macromolecules, 2006, 39, 1108-1115.	4.8	110
20	Renewable Lignin-Based Xerogels with Self-Cleaning Properties and Superhydrophobicity. ACS Sustainable Chemistry and Engineering, 2014, 2, 1729-1733.	6.7	103
21	Pickering emulsion-based fabrication of epoxy and amine microcapsules for dual core self-healing coating. Composites Science and Technology, 2016, 133, 51-59.	7.8	99
22	In-situ preparation of poly(ethylene oxide)/Li3PS4 hybrid polymer electrolyte with good nanofiller distribution for rechargeable solid-state lithium batteries. Journal of Power Sources, 2018, 387, 72-80.	7.8	95
23	Three-dimensional porous graphene-encapsulated CNT@SnO2 composite for high-performance lithium and sodium storage. Electrochimica Acta, 2017, 230, 212-221.	5.2	94
24	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. Nature Communications, 2021, 12, 3066.	12.8	92
25	Dynamic Supramolecular Hydrogels: Regulating Hydrogel Properties through Self-Complementary Quadruple Hydrogen Bonds and Thermo-Switch. ACS Macro Letters, 2017, 6, 641-646.	4.8	90
26	Spontaneous repairing liquid metal/Si nanocomposite as a smart conductive-additive-free anode for lithium-ion battery. Nano Energy, 2018, 50, 359-366.	16.0	89
27	Hollow lignin azo colloids encapsulated avermectin with high anti-photolysis and controlled release performance. Industrial Crops and Products, 2016, 87, 191-197.	5.2	88
28	500 Wh kg^{â˜'1} Class Li Metal Battery Enabled by a Selfâ€Organized Coreâ€“Shell Composite Anode. Advanced Materials, 2020, 32, e2004793.	21.0	86
29	Siliconâ€Based Lithium Ion Battery Systems: Stateâ€ofâ€theâ€Art from Half and Full Cell Viewpoint. Advanced Functional Materials, 2021, 31, 2102546.	14.9	83
30	UV-cured polymer electrolyte for LiNi0.85Co0.05Al0.1O2//Li solid state battery working at ambient temperature. Energy Storage Materials, 2019, 22, 337-345.	18.0	82
31	Exploring porous zeolitic imidazolate frame work-8 (ZIF-8) as an efficient filler for high-performance poly(ethyleneoxide)-based solid polymer electrolytes. Nano Research, 2020, 13, 2259-2267.	10.4	82
32	Superior lithium ion conduction of polymer electrolyte with comb-like structure via solvent-free copolymerization for bipolar all-solid-state lithium battery. Journal of Materials Chemistry A, 2018, 6, 13438-13447.	10.3	80
33	Colloidal Sphere Formation, H-Aggregation, and Photoresponsive Properties of an Amphiphilic Random Copolymer Bearing Branched Azo Side Chains. Macromolecules, 2006, 39, 6590-6598.	4.8	78
34	How electrolyte additives work in Li-ion batteries. Energy Storage Materials, 2019, 20, 208-215.	18.0	78
35	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. Nano Letters, 2020, 20, 4029-4037.	9.1	78
36	Selfâ€Healing Gelatin Hydrogels Crossâ€Linked by Combining Multiple Hydrogen Bonding and Ionic Coordination. Macromolecular Rapid Communications, 2017, 38, 1700018.	3.9	74

#	Article	IF	Citations
37	Lignin Reverse Micelles for UV-Absorbing and High Mechanical Performance Thermoplastics. Industrial & Engineering Chemistry Research, 2015, 54, 12025-12030.	3.7	73
38	Additive stabilization of SEI on graphite observed using cryo-electron microscopy. Energy and Environmental Science, 2021, 14, 4882-4889.	30.8	73
39	Aggregation-induced emission: the origin of lignin fluorescence. Polymer Chemistry, 2016, 7, 3502-3508.	3.9	72
40	Flexible polyimides through one-pot synthesis as water-soluble binders for silicon anodes in lithium ion batteries. Journal of Power Sources, 2018, 379, 26-32.	7.8	69
41	Novel Lignin-Derived Water-Soluble Binder for Micro Silicon Anode in Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 12621-12629.	6.7	68
42	Glycinamide modified polyacrylic acid as high-performance binder for silicon anodes in lithium-ion batteries. Journal of Power Sources, 2018, 406, 102-109.	7.8	66
43	Composite polymer electrolytes with uniform distribution of ionic liquid-grafted ZIF-90 nanofillers for high-performance solid-state Li batteries. Chemical Engineering Journal, 2021, 412, 128733.	12.7	66
44	A large-size, bipolar-stacked and high-safety solid-state lithium battery with integrated electrolyte and cathode. Journal of Power Sources, 2018, 394, 57-66.	7.8	65
45	Adsorption Characteristics of Lignosulfonates in Salt-Free and Salt-Added Aqueous Solutions. Biomacromolecules, 2011, 12, 3313-3320.	5.4	64
46	Integrated design of ultrathin crosslinked network polymer electrolytes for flexible and stable all-solid-state lithium batteries. Energy Storage Materials, 2022, 47, 453-461.	18.0	63
47	PVA/Carbon Dot Nanocomposite Hydrogels for Simple Introduction of Ag Nanoparticles with Enhanced Antibacterial Activity. Macromolecular Materials and Engineering, 2016, 301, 1352-1362.	3.6	60
48	Reaction-Free Lignin Whitening via a Self-Assembly of Acetylated Lignin. Industrial & Engineering Chemistry Research, 2014, 53, 10024-10028.	3.7	59
49	A robust aqueous-processable polymer binder for long-life, high-performance lithium sulfur battery. Energy Storage Materials, 2019, 21, 61-68.	18.0	58
50	New Lithium Salt Forms Interphases Suppressing Both Li Dendrite and Polysulfide Shuttling. Advanced Energy Materials, 2020, 10, 1903937.	19.5	58
51	Novel Method for the Determination of the Methoxyl Content in Lignin by Headspace Gas Chromatography. Journal of Agricultural and Food Chemistry, 2012, 60, 5307-5310.	5.2	57
52	Surface modification of melamine sponges for pH-responsive oil absorption and desorption. Applied Surface Science, 2017, 416, 798-804.	6.1	56
53	Oneâ€Pot Fabrication of a Novel Agarâ€Polyacrylamide/Graphene Oxide Nanocomposite Double Network Hydrogel with High Mechanical Properties. Advanced Engineering Materials, 2016, 18, 1799-1807.	3.5	55
54	Core/shell nanostructured Na 3 V 2 (PO 4) 3 /C/TiO 2 composite nanofibers as a stable anode for sodium-ion batteries. Journal of Power Sources, 2017, 362, 147-159.	7.8	54

#	Article	IF	Citations
55	Self-assembly of kraft lignin into nanospheres in dioxane-water mixtures. Holzforschung, 2016, 70, 725-731.	1.9	52
56	Effect of Side Chains and Sulfonic Groups on the Performance of Polycarboxylate-Type Superplasticizers in Concentrated Cement Suspensions. Journal of Dispersion Science and Technology, 2011, 32, 203-212.	2.4	51
57	Macroporous antibacterial hydrogels with tunable pore structures fabricated by using Pickering high internal phase emulsions as templates. Polymer Chemistry, 2014, 5, 4227-4234.	3.9	51
58	Aqueous-processable polymer binder with strong mechanical and polysulfide-trapping properties for high performance of lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 18660-18668.	10.3	51
59	Three-dimensional porous carbon-coated graphene composite as high-stable and long-life anode for sodium-ion batteries. Chemical Engineering Journal, 2017, 316, 645-654.	12.7	49
60	Water-based phytic acid-crosslinked supramolecular binders for lithium-sulfur batteries. Chemical Engineering Journal, 2020, 395, 124981.	12.7	49
61	Amphiphilic Azo Polymer Spheres, Colloidal Monolayers, and Photoinduced Chromophore Orientation. Langmuir, 2005, 21, 6567-6571.	3.5	48
62	An Injectable Hydrogel with Excellent Selfâ€Healing Property Based on Quadruple Hydrogen Bonding. Macromolecular Chemistry and Physics, 2016, 217, 2172-2181.	2.2	48
63	Mechanism Study of Unsaturated Tripropargyl Phosphate as an Efficient Electrolyte Additive Forming Multifunctional Interphases in Lithium Ion and Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10443-10451.	8.0	47
64	Green Design of Si/SiO₂/C Composites as High-Performance Anodes for Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 3884-3892.	5.1	43
65	Effect of molecular weight of sulphonated acetone-formaldehyde condensate on its adsorption and dispersion properties in cementitious system. Cement and Concrete Research, 2012, 42, 1043-1048.	11.0	42
66	Preparation of renewable lignin-derived nitrogen-doped carbon nanospheres as anodes for lithium-ion batteries. RSC Advances, 2016, 6, 77143-77150.	3.6	42
67	Fabrication of Anion-Exchange Polymer Layered Grapheneâ€“Melamine Electrodes for Membrane Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2017, 5, 325-333.	6.7	41
68	Effect of straight-chain alcohols on the physicochemical properties of calcium lignosulfonate. Journal of Colloid and Interface Science, 2009, 338, 151-155.	9.4	40
69	Polyethylenimine and dithiocarbamate decorated melamine sponges for fast copper (II) ions removal from aqueous solution. Applied Surface Science, 2018, 445, 471-477.	6.1	40
70	Freestanding Lamellar Porous Carbon Stacks for Lowâ€Temperatureâ€Foldable Supercapacitors. Small, 2019, 15, e1902071.	10.0	39
71	Hollow nanotubular clay composited comb-like methoxy poly(ethylene glycol) acrylate polymer as solid polymer electrolyte for lithium metal batteries. Electrochimica Acta, 2020, 340, 135995.	5.2	39
72	Fabrication of degradable polymer microspheres via pH-responsive chitosan-based Pickering emulsion photopolymerization. RSC Advances, 2014, 4, 29344-29351.	3.6	38

#	Article	IF	Citations
73	Hybrid Colloids Composed of Two Amphiphilic Azo Polymers:â€‰ Fabrication, Characterization, and Photoresponsive Properties. Macromolecules, 2007, 40, 6669-6678.	4.8	37
74	Tin nanoparticles embedded in porous N-doped graphene-like carbon network as high-performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 699, 730-737.	5.5	36
75	Magnesio-mechanochemical reduced SiO for high-performance lithium ion batteries. Journal of Power Sources, 2018, 407, 112-122.	7.8	36
76	A Triblock Copolymer Design Leads to Robust Hybrid Hydrogels for High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 36301-36310.	8.0	34
77	Self-Healing Double-Cross-Linked Supramolecular Binders of a Polyacrylamide-Grafted Soy Protein Isolate for Liâ€“S Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 12799-12808.	6.7	33
78	Physicochemical properties of sodium lignosulfonates (NaLS) modified by laccase. Holzforschung, 2012, 66, 825-832.	1.9	32
79	Simple fabrication of multi-functional melamine sponges. Materials Letters, 2017, 190, 119-122.	2.6	32
80	Na3NH2B12H12 as high performance solid electrolyte for all-solid-state Na-ion batteries. Journal of Power Sources, 2018, 396, 574-579.	7.8	32
81	Ambient-temperature fabrication of melamine-based sponges coated with hydrophobic lignin shells by surface dip adsorbing for oil/water separation. RSC Advances, 2016, 6, 106928-106934.	3.6	31
82	Synthesis of triblock copolymer polydopamine-polyacrylic-polyoxyethylene with excellent performance as a binder for silicon anode lithium-ion batteries. RSC Advances, 2018, 8, 4604-4609.	3.6	31
83	Na3V2(PO4)3/C nanofiber bifunction as anode and cathode materials for sodium-ion batteries. Journal of Solid State Electrochemistry, 2017, 21, 2985-2995.	2.5	30
84	High voltage, solvent-free solid polymer electrolyte based on a star-comb PDLLAâ€“PEG copolymer for lithium ion batteries. RSC Advances, 2018, 8, 6373-6380.	3.6	30
85	Synthesis of silicon anode binders with ultra-high content of catechol groups and the effect of molecular weight on battery performance. Journal of Power Sources, 2020, 463, 228188.	7.8	30
86	Natural Cocoons Enabling Flexible and Stable Fabric Lithiumâ€“Sulfur Full Batteries. Nano-Micro Letters, 2021, 13, 84.	27.0	30
87	Probing the interactions between lignin and inorganic oxides using atomic force microscopy. Applied Surface Science, 2016, 390, 617-622.	6.1	29
88	Lignin derived Si@C composite as a high performance anode material for lithium ion batteries. Solid State Ionics, 2018, 319, 77-82.	2.7	29
89	Anin situphotopolymerized composite solid electrolyte from halloysite nanotubes and comb-like polycaprolactone for high voltage lithium metal batteries. Journal of Materials Chemistry A, 2021, 9, 9826-9836.	10.3	29
90	Preparation of Photoresponsive Azo Polymers Based on Lignin, a Renewable Biomass Resource. ACS Sustainable Chemistry and Engineering, 2015, 3, 1111-1116.	6.7	28

#	Article	IF	Citations
91	Effect of calcium lignosulfonate on the hydration of the tricalcium aluminateâ€“anhydrite system. Cement and Concrete Research, 2012, 42, 1549-1554.	11.0	27
92	Carbonyl-coordinating polymers for high-voltage solid-state lithium batteries: Solid polymer electrolytes. MRS Energy & Sustainability, 2020, 7, 1.	3.0	27
93	Gas Generation Mechanism in Liâ€Metal Batteries. Energy and Environmental Materials, 2022, 5, 327-336.	12.8	27
94	One-pot synthesis of crosslinked polymer electrolyte beyond 5V oxidation potential for all-solid-state lithium battery. Journal of Power Sources, 2019, 431, 1-7.	7.8	26
95	FeIII chelated organic anode with ultrahigh rate performance and ultra-long cycling stability for lithium-ion batteries. Energy Storage Materials, 2020, 24, 432-438.	18.0	25
96	Low-Cost and Environmentally Friendly Biopolymer Binders for Liâ€“S Batteries. Macromolecules, 2020, 53, 8539-8547.	4.8	25
97	Transition metal oxides as lithium-free cathodes for solid-state lithium metal batteries. Nano Energy, 2020, 74, 104867.	16.0	25
98	Effect of Molecular Weight on the Adsorption Characteristics of Lignosulfonates. Journal of Physical Chemistry B, 2011, 115, 14866-14873.	2.6	24
99	Lignin-Derived Nitrogen-Doped Porous Carbon as a High-Rate Anode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A423-A428.	2.9	24
100	An In Situ Polymerized Comb-Like PLA/PEG-based Solid Polymer Electrolyte for Lithium Metal Batteries. Journal of the Electrochemical Society, 2020, 167, 070504.	2.9	24
101	Understanding the lithium dendrites growth in garnet-based solid-state lithium metal batteries. Journal of Power Sources, 2022, 521, 230921.	7.8	24
102	Lignosulfonate Separation Using Preparative Column Chromatography. Industrial & Engineering Chemistry Research, 2011, 50, 10792-10799.	3.7	23
103	Three-arm star compounds composed of 1,3,5-tri(azobenzeneethynyl)benzene cores and flexible PEO arms: synthesis, optical functions, hybrid Ormosil gel glasses. Journal of Materials Chemistry C, 2013, 1, 1791.	5.5	23
104	Novel multi-block conductive binder with polybutadiene for Si anodes in lithium-ion batteries. Electrochimica Acta, 2019, 315, 58-66.	5.2	22
105	A three-dimensional crosslinked chitosan sulfate network binder for high-performance Liâ€“S batteries. Journal of Energy Chemistry, 2021, 56, 171-178.	12.9	22
106	Sequentially adsorbed electrostatic multilayers of polyaniline and azo polyelectrolytes. Polymer, 2008, 49, 5504-5512.	3.8	21
107	Aggregation of sodium lignosulfonate above a critical temperature. Holzforschung, 2014, 68, 641-647.	1.9	21
108	Graphene/cyclodextrin-based nanocomposite hydrogel with enhanced strength and thermo-responsive ability. Carbohydrate Polymers, 2017, 174, 804-811.	10.2	21

#	Article	IF	Citations
109	Exploring synergetic effects of vinylene carbonate and 1,3-propane sultone on LiNi0.6Mn0.2Co0.2O2/graphite cells with excellent high-temperature performance. Journal of Power Sources, 2019, 437, 226929.	7.8	21
110	Exploiting Pulping Waste as an Ecofriendly Multifunctional Binder for Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 8413-8418.	6.7	21
111	Hyperbranched PCL/PS Copolymer-Based Solid Polymer Electrolytes Enable Long Cycle Life of Lithium Metal Batteries. Journal of the Electrochemical Society, 2020, 167, 110532.	2.9	21
112	An ultrahigh-areal-capacity SiOx negative electrode for lithium ion batteries. Journal of Power Sources, 2020, 464, 228244.	7.8	21
113	Fabrication of Lignosulfonate Vesicular Reverse Micelles to Immobilize Horseradish Peroxidase. Industrial & Engineering Chemistry Research, 2016, 55, 2731-2737.	3.7	20
114	Cryoâ€Electron Tomography of Highly Deformable and Adherent Solidâ€Electrolyte Interphase Exoskeleton in Liâ€Metal Batteries with Etherâ€Based Electrolyte. Advanced Materials, 2022, 34, e2108252.	21.0	20
115	Isolation of lignosulfonate with low polydispersity index. Chinese Chemical Letters, 2010, 21, 1479-1481.	9.0	19
116	Conductivity Enhancement of Poly(3,4-ethylenedioxythiophene)/Lignosulfonate Acid Complexes via Pickering Emulsion Polymerization. ACS Sustainable Chemistry and Engineering, 2016, 4, 7193-7199.	6.7	19
117	Tuning protein adsorption on charged polyelectrolyte brushes via salinity adjustment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 37-45.	4.7	19
118	Multifunctional Fluoroethylene Carbonate for Improving High-Temperature Performance of LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂||SiO_x@Graphite Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 9989-10000.	5.1	19
119	Synthesis and Evaluation of Polycarboxylate-Type Superplasticizers with Different Carboxylic Contents Used in a Cement System. International Journal of Polymeric Materials and Polymeric Biomaterials, 2011, 60, 923-938.	3.4	18
120	Robust polymer nanofilms with bioengineering and environmental applications via facile and highly efficient covalent layer-by-layer assembly. Journal of Materials Chemistry B, 2018, 6, 3742-3750.	5.8	18
121	Direct Preparation of Hollow Nanospheres with Kraft Lignin: A Facile Strategy for Effective Utilization of Biomass Waste. BioResources, 2016, 11, .	1.0	17
122	Introducing catalyst in alkaline membrane for improved performance direct borohydride fuel cells. Journal of Power Sources, 2018, 374, 113-120.	7.8	17
123	Light scattering characterization of lignosulfonate structure in saline solutions. Holzforschung, 2015, 69, 377-383.	1.9	15
124	Determination of absolute molecular weight of sodium lignosulfonates (NaLS) by laser light scattering (LLS). Holzforschung, 2013, 67, 265-271.	1.9	14
125	Transportation and release of Janus micromotors by two-stage rocket hydrogel. Journal of Materials Chemistry A, 2017, 5, 18442-18447.	10.3	14
126	Overcharge Investigations of LiCoO₂/Graphite Lithium Ion Batteries with Different Electrolytes. ACS Applied Energy Materials, 2019, 2, 8615-8624.	5.1	14

#	Article	IF	Citations
127	Water-based dual-network conductive polymer binders for high-performance Liâ€“S batteries. Electrochimica Acta, 2021, 371, 137822.	5.2	13
128	Tale of Three Phosphate Additives for Stabilizing NCM811/Graphite Pouch Cells: Significance of Molecular Structureâ€“Reactivity in Dictating Interphases and Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 29676-29690.	8.0	13
129	Enabling high-energy flexible solid-state lithium ion batteries at room temperature. Chemical Engineering Journal, 2021, 424, 130335.	12.7	13
130	Effect of Molecular Weight of Polycarboxylate-type Superplasticizer on the Rheological Properties of Cement Pastes. Polymers and Polymer Composites, 2012, 20, 725-736.	1.9	11
131	Nitrogen, Oxygen and Cobalt multiple-doped graphitized mesoporous carbon as a cost-effective carbon host with high sulfur content for lithium-sulfur batteries. Journal of Alloys and Compounds, 2019, 787, 1356-1364.	5.5	11
132	Generating lithium fluoride-abundant interphase on layered lithium-rich oxide cathode with lithium 1,1,2,2,3,3-hexafluoropropane-1,3-disulfonimide. Journal of Power Sources, 2021, 507, 230278.	7.8	11
133	Enhanced Thermoelectric Performance by Strong Phonon Scattering at the Heterogeneous Interfaces of the Mg₂Sn/Mg₃Sb₂ High-Content Nanocomposite. ACS Applied Materials & Interfaces, 2021, 13, 56164-56170.	8.0	11
134	Artificial solid electrolyte interphase modified porous SiO composite as anode material for lithium ion batteries. Solid State Ionics, 2020, 347, 115272.	2.7	10
135	Formation of Excellent Cathode/Electrolyte Interface with UV-Cured Polymer Electrolyte through In Situ Strategy. Journal of the Electrochemical Society, 2021, 168, 020511.	2.9	10
136	Room-temperature all-solid-state lithium metal batteries based on ultrathin polymeric electrolytes. Journal of Materials Chemistry A, 2022, 10, 13969-13977.	10.3	10
137	Slow relaxation mode of sodium lignosulfonate in saline solutions. Holzforschung, 2015, 69, 17-23.	1.9	9
138	Layer-by-Layer Self-Assembled Films of a Lignin-based Polymer through Hydrogen Bonding. ACS Sustainable Chemistry and Engineering, 2015, 3, 1215-1220.	6.7	9
139	Preparation of water-dispersive poly(3,4-ethylenedioxythiophene) (PEDOT) conductive nanoparticles in lignosulfonic acid solution. Holzforschung, 2015, 69, 539-545.	1.9	9
140	Water-Based Dual-Cross-Linked Polymer Binders for High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 29316-29323.	8.0	9
141	Stable Lithium Metal Anodes with a GaO_x Artificial Solid Electrolyte Interphase in Damp Air. ACS Applied Materials & Interfaces, 2021, 13, 21467-21473.	8.0	9
142	Effects of Co doping sites on the electrochemical performance of LiNi0.5Mn1.5O4 as a cathode material. Ionics, 2020, 26, 3777-3783.	2.4	9
143	Effect of Temperature on Polyelectrolyte Expansion of Lignosulfonate. BioResources, 2014, 10, .	1.0	8
144	Facile synthesis of anhydrous Li 2 B 12 H 12 with high purity by solvent-free method. Inorganica Chimica Acta, 2017, 464, 147-151.	2.4	8

#	Article	IF	Citations
145	A Fourâ€Armed Polyacrylic Acid Homopolymer Binder with Enhanced Performance for SiO_x/Graphite Anode. Macromolecular Materials and Engineering, 2021, 306, .	3.6	8
146	Metal chelation based supramolecular self-assembly enables a high-performance organic anode for lithium ion batteries. Chemical Engineering Journal, 2021, 413, 127525.	12.7	8
147	Cathode-anode reaction products interplay enabling high performance of LiNi0.8Co0.1Mn0.1O2/artificial graphite pouch batteries at elevated temperature. Journal of Power Sources, 2021, 514, 230583.	7.8	8
148	Roomâ€Temperature Solidâ€State Lithium Metal Batteries Using Metal Organic Framework Composited Combâ€Like Methoxy Poly(ethylene glycol) Acrylate Solid Polymer Electrolytes. Macromolecular Materials and Engineering, 2021, 306, 2100336.	3.6	7
149	Sunlight helps self-healing of liquid-crystalline gels of lignin-graft PMMA doped with GO and azobenzene. Liquid Crystals, 2020, 47, 1170-1179.	2.2	6
150	Effect of Pd and Au on Hydrogen Abstraction and Câ€“C Cleavage in Photoconversion of Glycerol: Beyond Charge Separation. Journal of Physical Chemistry C, 2020, 124, 20320-20327.	3.1	6
151	Ionic-liquid induced enhanced performance of perovskite light-emitting diodes. Journal Physics D: Applied Physics, 2020, 53, 384002.	2.8	5
152	LiCoO2/Graphite Cells with Localized High Concentration Carbonate Electrolytes for Higher Energy Density. Liquids, 2021, 1, 60-74.	2.5	5
153	A facile solvent-free method for NaBH 4 and Na 2 B 12 H 12 synthesis. Inorganica Chimica Acta, 2018, 474, 16-21.	2.4	4
154	pH EFFECT ON ELECTROSTATIC LAYER-BY-LAYER SELF-ASSEMBLY OF SODIUM LIGNOSULFONATE. Acta Polymerica Sinica, 2010, 010, 699-704.	0.0	4
155	Poly (methyl vinyl ether-alt-maleic anhydride) as an ecofriendly electrolyte additive for high-voltage lithium-rich oxides with improved stability of interphase. Electrochimica Acta, 2021, 400, 139467.	5.2	4
156	Ionic Liquid Mediated Synthesis of Lath Shaped <scp>CuO</scp> Microâ€Assembles as Extremely Stable Anode Material for Lithiumâ€Ion Batteries. Chinese Journal of Chemistry, 2017, 35, 1299-1304.	4.9	3
157	Trap-Assisted Charge Injection into Large Bandgap Polymer Semiconductors. Materials, 2019, 12, 2427.	2.9	3
158	Effect of dipping solution pH values on electrostatic layer-by-layer self-assembly of side-chain azo polyelectrolyte. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2008, 3, 218-223.	0.4	2
159	SYNTHESIS, CHARACTERIZATION AND SELF-ASSEMBLY OF AN AZOBENZENE-CONTAINING AMPHIPHILIC ABA TRIBLOCK COPOLYMER. Acta Polymerica Sinica, 2009, 009, 128-133.	0.0	2
160	Cryoâ€Electron Tomography of Highly Deformable and Adherent Solidâ€Electrolyte Interphase Exoskeleton in Liâ€Metal Batteries with Etherâ€Based Electrolyte (Adv. Mater. 13/2022). Advanced Materials, 2022, 34, .	21.0	2
161	A Polymer-in-Salt Electrolyte Enables Room Temperature Lithium Metal Batteries. Journal of the Electrochemical Society, 2022, 169, 040562.	2.9	2
162	Quantum Dots: Stabilization of Black Phosphorous Quantum Dots in PMMA Nanofiber Film and Broadband Nonlinear Optics and Ultrafast Photonics Application (Adv. Funct. Mater. 32/2017). Advanced Functional Materials, 2017, 27, .	14.9	1

#	Article	IF	Citations
163	Effect of Temperature on a Lignin-based Polymer with Two Types of Microstructures. BioResources, 2014, 9, .	1.0	0